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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re the Application of: **Toshio NARITA**

Group Art Unit: **1742**

Serial Number: **10/519,802**

Filed: **August 19, 2005**

Confirmation No.: **7353**

For: **METAL BASED RESISTANCE HEATING ELEMENT AND  
METHOD FOR PREPARATION THEREOF**

Attorney Docket Number: **043061**

Customer Number: **38834**

**REQUEST FOR CORRECTED FILING RECEIPT**

**Mail Stop: Missing Parts**  
Commissioner for Patents  
P. O. Box 1450  
Alexandria, VA 22313-1450

October 26, 2005

Sir:

Please supply the undersigned attorney with a corrected filing receipt for the above-identified application. The undersigned also respectfully requests that the Patent and Trademark Office records be amended to reflect the correction.

In reviewing the Official Filing Receipt, we noted the **Assignee's Information** was not recorded and also we noted an error in the **Title**. The Assignee's Information should read --**JAPAN SCIENCE AND TECHNOLOGY AGENCY, Kawaguchi-shi, JAPAN--**. The Title should read --**METAL BASED RESISTANCE HEATING ELEMENT AND METHOD FOR PREPARATION THEREOF--**. A copy of the **Transmittal Letter** and the **PCT Publication** are enclosed which indicate the correct information. We are also enclosing a copy of the filing receipt with the corrections highlighted.

Request for Corrected Filing Receipt  
10/519,802  
043061

If any fees are required in connection with this paper, please charge Deposit Account No.  
50-2866.

Respectfully submitted,  
**WESTERMAN, HATTORI, DANIELS & ADRIAN, LLP**

A handwritten signature in black ink, appearing to read "Sadao Kinashi".

Sadao Kinashi  
Attorney for Applicants  
Registration No. 48,075  
Telephone: (202) 822-1100  
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SK/if

Enclosures: Official Filing Receipt; Transmittal Letter; PCT Publication



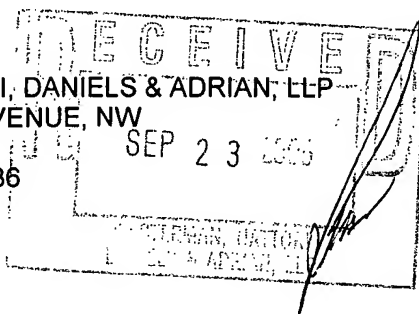
## UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE  
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APPL NO.	FILING OR 371 (c) DATE	ART UNIT	FIL FEE REC'D	ATTY. DOCKET NO	DRAWINGS	TOT CLMS	IND CLMS
10/519,802	08/19/2005	1742	1230	043061	5	9	4

38834

WESTERMAN, HATTORI, DANIELS & ADRIAN, LLP  
1250 CONNECTICUT AVENUE, NW  
SUITE 700  
WASHINGTON, DC 20036



CONFIRMATION NO. 7353

## FILING RECEIPT



\*OC000000017045745\*

Date Mailed: 09/21/2005

Receipt is acknowledged of this regular Patent Application. It will be considered in its order and you will be notified as to the results of the examination. Be sure to provide the U.S. APPLICATION NUMBER, FILING DATE, NAME OF APPLICANT, and TITLE OF INVENTION when inquiring about this application. Fees transmitted by check or draft are subject to collection. Please verify the accuracy of the data presented on this receipt. If an error is noted on this Filing Receipt, please mail to the Commissioner for Patents P.O. Box 1450 Alexandria Va 22313-1450. Please provide a copy of this Filing Receipt with the changes noted thereon. If you received a "Notice to File Missing Parts" for this application, please submit any corrections to this Filing Receipt with your reply to the Notice. When the USPTO processes the reply to the Notice, the USPTO will generate another Filing Receipt incorporating the requested corrections (if appropriate).

## Applicant(s)

Toshio Narita, Hokkaido, JAPAN;

Please { Assignment for Published Patent Application

Insert { JAPAN SCIENCE AND TECHNOLOGY AGENCY, Kamaguchi-shi, JAPAN

Power of Attorney: The patent practitioners associated with Customer Number 38834.

## Domestic Priority data as claimed by applicant

This application is a 371 of PCT/JP03/08334 06/30/2003

## Foreign Applications

JAPAN 2002-191587 07/01/2002

Projected Publication Date: 12/29/2005

Non-Publication Request: No

Early Publication Request: No

## Title

Metal based resistance heating element and method for preparation thereof

thereof

**Preliminary Class**

420

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Since the rights granted by a U.S. patent extend only throughout the territory of the United States and have no effect in a foreign country, an inventor who wishes patent protection in another country must apply for a patent in a specific country or in regional patent offices. Applicants may wish to consider the filing of an international application under the Patent Cooperation Treaty (PCT). An international (PCT) application generally has the same effect as a regular national patent application in each PCT-member country. The PCT process **simplifies** the filing of patent applications on the same invention in member countries, but **does not result** in a grant of "an international patent" and does not eliminate the need of applicants to file additional documents and fees in countries where patent protection is desired.

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Applicants may wish to consult the USPTO booklet, "General Information Concerning Patents" (specifically, the section entitled "Treaties and Foreign Patents") for more information on timeframes and deadlines for filing foreign patent applications. The guide is available either by contacting the USPTO Contact Center at 800-786-9199, or it can be viewed on the USPTO website at <http://www.uspto.gov/web/offices/pac/doc/general/index.html>.

For information on preventing theft of your intellectual property (patents, trademarks and copyrights), you may wish to consult the U.S. Government website, <http://www.stopfakes.gov>. Part of a Department of Commerce initiative, this website includes self-help "toolkits" giving innovators guidance on how to protect intellectual property in specific countries such as China, Korea and Mexico. For questions regarding patent enforcement issues, applicants may call the U.S. Government hotline at 1-866-999-HALT (1-866-999-4158).

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Title 37, Code of Federal Regulations, 5.11 & 5.15**

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OCT 26 2005

ATTORNEY'S DOCKET NO.: 043061

U.S. DEPARTMENT OF COMMERCE, PATENT AND TRADEMARK OFFICE		DATE: December 29, 2004
TRANSMITTAL LETTER TO THE UNITED STATES DESIGNATED/ELECTED OFFICE (DO/EO/US) CONCERNING A FILING UNDER 35 U.S.C. 371		U.S. Application. No. (if known):
INTERNATIONAL APPLICATION NO.: PCT/JP03/08334	INTERNATIONAL FILING DATE: JUNE 30, 2003	PRIORITY DATE CLAIMED: JULY 1, 2002
TITLE OF INVENTION: <b>METAL-BASED RESISTANCE HEATING-GENERATION ELEMENT AND PRODUCTION METHOD THEREFOR</b>		
APPLICANT(S) FOR DO/EO/US: Toshio NARITA		
Applicant hereby submits to the United States Designated/Elected Office (DO/EO/US) the following items and other information:		
<ol style="list-style-type: none"> <li>1. <input checked="" type="checkbox"/> This is a FIRST submission of items concerning a filing under 35 U.S.C. 371.</li> <li>2. <input type="checkbox"/> This is a SECOND or SUBSEQUENT submission of items concerning a filing under 35 U.S.C. 371.</li> <li>3. <input checked="" type="checkbox"/> This is an express request to begin national examination procedures (35 USC 371(f)). The submission must include items (5), (6), (9) and (21) indicated below.</li> <li>4. <input checked="" type="checkbox"/> The US has been elected (Article 31).</li> <li>5. <input checked="" type="checkbox"/> A copy of the International Application as filed (35 U.S.C. 371(c)(2)): <ol style="list-style-type: none"> <li>a. <input type="checkbox"/> is transmitted herewith (required only if not transmitted by the International Bureau).</li> <li>b. <input checked="" type="checkbox"/> has been transmitted by the International Bureau.</li> <li>c. <input type="checkbox"/> is not required, as the application was filed in the United States Receiving Office (RO/US)</li> </ol> </li> <li>6. <input checked="" type="checkbox"/> An English language translation of the International Application as filed (35 U.S.C. 371(c)(2)). <ol style="list-style-type: none"> <li>a. <input checked="" type="checkbox"/> is attached hereto.</li> <li>b. <input type="checkbox"/> has been previously submitted under 35 U.S.C. 154(d)(4).</li> </ol> </li> <li>7. <input checked="" type="checkbox"/> Amendments to the claims of the International Application under PCT Article 19 (35 U.S.C. 371(c)(3)) <ol style="list-style-type: none"> <li>a. <input type="checkbox"/> are transmitted herewith (required only if not transmitted by the International Bureau).</li> <li>b. <input type="checkbox"/> have been transmitted by the International Bureau.</li> <li>c. <input type="checkbox"/> have not been made; however, the time limit for making such amendments has NOT expired.</li> <li>d. <input checked="" type="checkbox"/> have not been made and will not be made.</li> </ol> </li> <li>8. <input type="checkbox"/> An English language translation of the amendments to the claims under PCT Article 19 (35 U.S.C. 371(c)(3)).</li> <li>9. <input type="checkbox"/> An oath or declaration of the inventor(s) (35 U.S.C. 371(c)(4)).</li> <li>10. <input type="checkbox"/> An English language translation of the annexes to the International Preliminary Examination Report under PCT Article 36 (35 U.S.C. 371(c)(5)).</li> </ol>		
ITEMS 11. TO 20. BELOW CONCERN OTHER DOCUMENT(S) OR INFORMATION INCLUDED:		
<ol style="list-style-type: none"> <li>11. <input checked="" type="checkbox"/> An Information Disclosure Statement under 37 CFR 1.97 and 1.98 together with the international search report, PTO-1449 and 3 references.</li> <li>12. <input type="checkbox"/> An assignment document for recording. A separate cover sheet in compliance with 37 CFR 3.28 and 3.31 is included. ASSIGNEE NAME AND ADDRESS: <u>JAPAN SCIENCE AND TECHNOLOGY AGENCY, Kawaguchi-shi, Japan</u> Please publish the assignee data with the application.</li> <li>13. <input type="checkbox"/> A preliminary amendment.</li> <li>14. <input type="checkbox"/> An Application Data Sheet under 37 C.F.R. 1.76</li> <li>15. <input type="checkbox"/> A substitute specification.</li> <li>16. <input type="checkbox"/> A change of power of attorney and/or address letter.</li> <li>17. <input type="checkbox"/> A computer-readable form of the sequence listing in accordance with PCT Rule 13ter.2 and 37 C.F.R. 1.821 - 1.825.</li> <li>18. <input type="checkbox"/> A second copy of the published international application under 35 U.S.C. 154(d)(4).</li> <li>19. <input type="checkbox"/> A second copy of the English language translation of the international application under 35 U.S.C. 154(d)(4).</li> <li>20. <input checked="" type="checkbox"/> Other items or information: 5 sheets of drawings.</li> </ol>		

(19) 世界知的所有権機関  
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(43) 国際公開日  
2004 年 1 月 8 日 (08.01.2004)

PCT

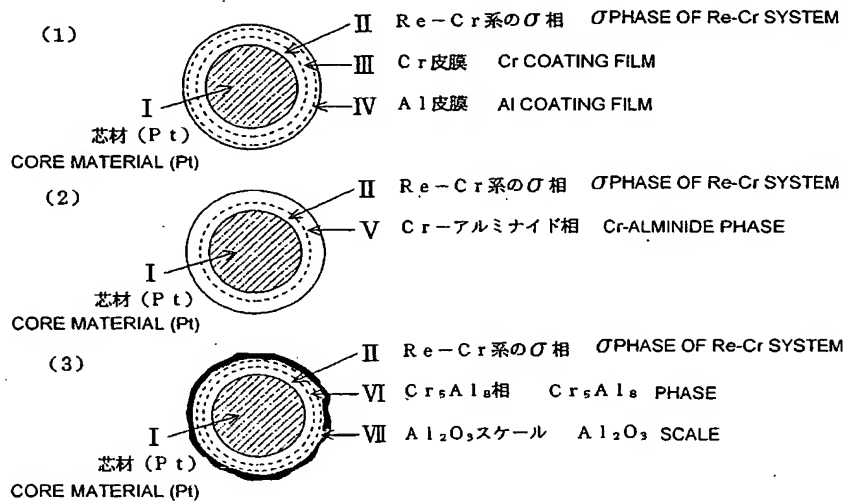
(10) 国際公開番号  
WO 2004/004418 A1

- (51) 国際特許分類<sup>7</sup>: H05B 3/12, C23C 10/28 (72) 発明者; および  
(21) 国際出願番号: PCT/JP2003/008334 (75) 発明者/出願人 (米国についてのみ): 成田 敏夫  
(22) 国際出願日: 2003 年 6 月 30 日 (30.06.2003) (NARITA, Toshio) [JP/JP]; 〒001-0901 北海道 札幌市  
(25) 国際出願の言語: 日本語 (74) 代理人: 西 義之 (NISHI, Yoshiyuki); 〒235-0036 神奈  
(26) 国際公開の言語: 日本語 川県 横浜市 磯子区 中原 4-26-32-211 西 特許事務所  
(30) 優先権データ: Kanagawa (JP).  
特願2002-191587 2002 年 7 月 1 日 (01.07.2002) JP (81) 指定国 (国内): US.  
(71) 出願人 (米国を除く全ての指定国について): 科学技術 振興事業団 (JAPAN SCIENCE AND TECHNOLOGY (84) 指定国 (広域): ヨーロッパ特許 (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR).  
CORPORATION) [JP/JP]; 〒332-0012 埼玉県 川口市 本町 4-1-8 Saitama (JP). 添付公開書類:  
— 国際調査報告書

[続葉有]

(54) Title: METAL BASED RESISTANCE HEATING ELEMENT AND METHOD FOR PREPARATION THEREOF

(54) 発明の名称: 金属系抵抗発熱体とその製造方法



(57) Abstract: A metal based resistance heating element, which comprises a core material of a platinum group metal or a refractory metal and, formed on the surface thereof, a coating film having at least two layers, wherein the film has an inner layer of the core side comprising a  $\sigma$  (sigma) phase of a Re-Cr system and an outer most layer of the surface side comprising aluminide or silicide, or which comprises an alloy core material containing a platinum group metal or a refractory metal and Re and Cr diffused therein, and, formed on the surface thereof, a coating film comprising at least one layer, wherein the coating film is an aluminide layer or a silicide layer.

(57) 要約: 白金族金属又は耐火金属芯材の表面に少なくとも2層からなる皮膜を形成した部材であって、芯材側の内層はRe-Cr系の $\sigma$ (シグマ)相であり、表面側の最外層はアルミナイド層又はシリサイド層である金属系抵抗発熱体。または、白金族金属又は耐火金属に拡散したRe及びCrを含有する合金芯材の表面に少なくとも1層からなる皮膜を形成した部材であって、該皮

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WO 2004/004418 A1